



Judy Y. Lee
Attorney

February 6, 2004

VIA COURIER AND ELECTRONIC MAIL

Mary L. Cottrell, Secretary
Department of Telecommunications and Energy
One South Station
Second Floor
Boston, MA 02110

Re: D.T.E. 03-98 – Petition of Towns of Franklin and Swampscott

Dear Secretary Cottrell:

On behalf of Massachusetts Electric Company (“Company”), I am enclosing for filing one (1) original and eight (8) copies of the Company’s Responses to the Department’s Second Set of Information Requests and the Company’s Supplemental Response to the Department’s First Set of Information Requests in D.T.E. 03-98. Thank you very much for your time and attention to this matter.

Very truly yours,

Judy Y. Lee

cc: William Stevens, Hearing Officer
Jody Stiefel, Legal Division
James Byrnes, Rates and Revenues Requirements Division
Joseph Passaggio, Rates and Revenues Requirements Division
Sean Hanley, Rates and Revenues Requirements Division
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Massachusetts Electric Company
Docket No. D.T.E. 03-98
Supplemental Response to First Set of Department Information Requests

Information Request DTE 1-1

Request:

Provide the a more legible copy of Attachment 1, page 5 of 26 and Attachment 2, page 5 of 24, to the Company's first response to Information Request DTE 1-1.

Response:

Please find attached a reformatted version of Attachment 1, page 5 of 26 and Attachment 2, page 5 of 24.

Prepared by or under the supervision of: Alex J. Mango

MASSACHUSETTS ELECTRIC COMPANY
Franklin Pricing of Streetlighting Investment

		Investment in Common Equipment			Investment in Underground		Total Investment															
Unamortized Value of Existing Plant (a)		\$214,772			\$113,352		\$328,123															
Unamortized Value of Retired Plant (b)		<u>\$214,852</u>			<u>\$773</u>		<u>\$215,625</u>															
Unamortized Value of Streetlighting Equipment		\$429,624			\$114,124		\$543,748															
		S-1 Units as of Request Date (1)	Current Luminaire Charge (2)	S-1 Luminaire Revenue (3)	S-20 Units as of Request Date (1)	Current Luminaire Charge (2)	S-20 Luminaire Revenue (3)	S-3, Option A Units as of Request Date (1)	Current Luminaire Charge (2)	S-3, Option A Luminaire Revenue (3)	Total Units (4)	Total Luminaire Revenue (5)	Common OH/UG Investment Allocated Net Book (6)	Price Per Unit (7)	Underground Investment Allocated Net Book (6)	Price Per Unit (7)	Total Investment Allocated Net Book (8)	Price Per Unit (9)				
Incandescent																						
10	1,000		\$48.22	\$0.00	1	\$44.56	\$44.56				1	\$44.56	\$147.04	\$147.03			\$147.04	\$147.03				
11	2,500		\$59.66	\$0.00		\$20.67	\$0.00				0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00				
13	6,000		\$76.27	\$0.00		(\$9.48)	\$0.00				0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00				
14	10,000		\$83.84	<u>\$0.00</u>		(\$52.02)	<u>\$0.00</u>				0	<u>\$0.00</u>	<u>\$0.00</u>	\$0.00			<u>\$0.00</u>					
Total		0		\$0.00	1		\$44.56	0			1	\$44.56	\$147.04				\$147.04					
Mercury Vapor																						
3	4,000	6	\$48.31	\$289.86	5	\$39.14	\$195.70		\$45.61	\$0.00	11	\$485.56	\$1,602.25	\$145.65			\$1,602.25	\$145.65				
4	8,000	1	\$53.72	\$53.72		\$48.75	\$0.00		\$53.50	\$0.00	1	\$53.72	\$177.27	\$177.26			\$177.27	\$177.26				
16	11,000		\$69.26	\$0.00		\$47.01	\$0.00				0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00				
5	22,000	1	\$89.17	\$89.17		\$56.45	\$0.00		\$90.90	\$0.00	1	\$89.17	\$294.24	\$294.24			\$294.24	\$294.24				
6	63,000		\$157.80	\$0.00		(\$24.19)	\$0.00		\$169.24	\$0.00	0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00				
1	4,000 Post Top		\$57.23	\$0.00		\$44.54	\$0.00		\$63.99	\$0.00	0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00				
2	8,000 Post Top		\$76.69	\$0.00		\$42.92	\$0.00		\$58.25	\$0.00	0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00				
23	22,000 Flood	17	\$107.10	\$1,820.70		\$105.69	\$0.00				17	\$1,820.70	\$6,007.95	\$353.40			\$6,007.95	\$353.40				
24	63,000 Flood	8	\$195.05	<u>\$1,560.40</u>		\$9.18	<u>\$0.00</u>				8	<u>\$1,560.40</u>	<u>\$5,149.01</u>	\$643.62			<u>\$5,149.01</u>	\$643.62				
Total		33		\$3,813.85	5		\$195.70	0		\$0.00	38	\$4,009.55	\$13,230.72				\$13,230.72					
Sodium Vapor																						
70	4,000	58	\$55.46	\$3,216.68	1,330	\$55.46	\$73,761.80	4	\$40.21	\$160.84	1,392	\$77,139.32	\$254,544.49	\$182.86			\$254,544.49	\$182.86				
71	5,800		\$67.15	\$0.00		\$67.15	\$0.00				0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00				
72	9,600	11	\$70.88	\$779.68	58	\$70.88	\$4,111.04		\$43.06	\$0.00	69	\$4,890.72	\$16,138.41	\$233.88			\$16,138.41	\$233.88				
41	13,000 Retired		\$73.55	\$0.00		\$73.55	\$0.00				0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00				
73	16,000	2	\$75.50	\$151.00	16	\$75.50	\$1,208.00				18	\$1,359.00	\$4,484.43	\$249.13			\$4,484.43	\$249.13				
74	27,500	5	\$93.89	\$469.45	183	\$93.89	\$17,181.87		\$60.84	\$0.00	188	\$17,651.32	\$58,245.86	\$309.81			\$58,245.86	\$309.81				
75	50,000	2	\$130.48	\$260.96	4	\$130.48	\$521.92		\$89.01	\$0.00	6	\$782.88	\$2,583.35	\$430.55			\$2,583.35	\$430.55				
76	140,000		\$174.99	\$0.00		\$174.99	\$0.00		\$167.43	\$0.00	0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00				
77	27,500 Flood	16	\$143.43	\$2,294.88		\$143.43	\$0.00				16	\$2,294.88	\$7,572.65	\$473.29			\$7,572.65	\$473.29				
78	50,000 Flood	114	\$163.57	\$18,646.98	8	\$163.57	\$1,308.56				122	\$19,955.54	\$65,849.33	\$539.74			\$65,849.33	\$539.74				
80	140,000 Flood		\$220.24	\$0.00		\$220.24	\$0.00				0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00				
83	4,000 Post Top		\$60.84	\$0.00		\$60.84	\$0.00		\$51.07	\$0.00	0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00				
79	9,600 Post Top		\$65.20	\$0.00		\$65.20	\$0.00		\$53.26	\$0.00	0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00				
81	27,500 12 Hour		\$113.48	\$0.00		\$113.48	\$0.00				0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00				
82	27,500 24 Hour		\$102.18	<u>\$0.00</u>		\$102.18	<u>\$0.00</u>				0	<u>\$0.00</u>	<u>\$0.00</u>	\$0.00			<u>\$0.00</u>					
Total		208		<u>\$25,819.63</u>	1,599		<u>\$98,093.19</u>	4		<u>\$160.84</u>	1,811	<u>\$124,073.66</u>	<u>\$409,418.52</u>				<u>\$409,418.52</u>					
Total Lights		241		\$29,633.48	1,605		\$98,333.45	4		\$160.84	1,850	\$128,127.77	\$422,796.28				\$422,796.28					
Poles																						
Wood	P	33	\$41.53	\$1,370.49	6	\$41.53	\$249.18				39	\$1,619.67	\$5,344.59	\$137.04			\$5,344.59	\$137.04				
Wood Shared	A		\$20.69	\$0.00		\$20.69	\$0.00				0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00				
Non-Metalic	R		\$48.95	\$0.00		\$48.95	\$0.00				0	\$0.00			\$0.00	\$0.00	\$0.00	\$0.00				
Fiberglass<25	C		\$102.25	\$0.00		\$102.25	\$0.00				0	\$0.00			\$0.00	\$0.00	\$0.00	\$0.00				
Fiberglass>25	D		\$171.03	\$0.00		\$171.03	\$0.00				0	\$0.00			\$0.00	\$0.00	\$0.00	\$0.00				
Non Metal	Y								\$50.88	\$0.00	0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00				
Metal	Z							4	\$112.35	\$449.40	4	\$449.40	\$1,482.93	\$370.73			\$1,482.93	\$370.73				
Metal Embedded	F		\$49.59	\$0.00		\$49.59	\$0.00				0	\$0.00			\$0.00	\$0.00	\$0.00	\$0.00				
Metal With Base	T	31	\$127.50	\$3,952.50	211	\$127.50	\$26,902.50				242	\$30,855.00			\$105,022.23	\$433.97	\$105,022.23	\$433.97				
Shared Metal With Base	H		\$63.67	<u>\$0.00</u>	42	\$63.67	<u>\$2,674.14</u>				42	<u>\$2,674.14</u>			<u>\$9,102.06</u>	\$216.71	<u>\$9,102.06</u>	\$216.71				
Total Poles		64		<u>\$5,322.99</u>	259		<u>\$29,825.82</u>	4		<u>\$449.40</u>	327	<u>\$35,598.21</u>	<u>\$6,827.52</u>		<u>\$114,124.29</u>		<u>\$120,951.81</u>					
Total				\$34,956.47			\$128,159.27			\$610.24		\$163,725.98	\$429,623.80		\$114,124.29		\$543,748.09					
(a) Page 6, Column (a)																						
(b) Page 6, Column (b)																						

- (a) Page 6, Column (a)
(b) Page 6, Column (b)
(1) Per Mass. Electric Streetlight System representing streetlights and dedicated poles in the municipality service all streetlight customers, under applicable rate schedule.
(2) Per Mass. Electric applicable tariff
(3) Column (1) x Column (2)
(4) Sum of all Column (1)
(5) Sum of all Column (3)
(6) Amount in (a) above is allocated to each size and type of unit installed throughout the municipality by Column (5) [taking the ratio of annual luminaire/pole revenue for each size and type of unit ÷ total

MASSACHUSETTS ELECTRIC COMPANY
Swampscott Pricing of Streetlighting Investment

				Investment in		Investment in		Total													
				Common		Underground		Investment													
				Equipment																	
Unamortized Value of Existing Plant (a)				\$151,724		\$10,495		\$162,219													
Unamortized Value of Retired Plant (b)				\$54,410		\$7,365		\$61,775													
Unamortized Value of Streetlighting Equipment				\$206,134		\$17,860		\$223,995													
		S-1	Current	S-1	S-20	Current	S-20	S-3, Option A	Current	S-3, Option A	Total	Total	Common OH/UG Investment		Underground Investment		Total Investment				
		Units as of	Luminaire	Luminaire	Units as of	Luminaire	Luminaire	Units as of	Luminaire	Luminaire	Units	Luminaire	Allocated	Price	Allocated	Price	Allocated	Price			
		Request Date	Charge	Revenue	Request Date	Charge	Revenue	Request Date	Charge	Revenue	(4)	(5)	Net Book	Per Unit	Net Book	Per Unit	Net Book	Per Unit			
		(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)			(6)	(7)	(6)	(7)	(8)	(9)			
Incandescent																					
10	1,000		\$48.22	\$0.00		\$44.56	\$0.00				0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00			
11	2,500		\$59.66	\$0.00		\$20.67	\$0.00				0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00			
13	6,000		\$76.27	\$0.00		(\$9.48)	\$0.00				0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00			
14	10,000		\$83.84	\$0.00		(\$52.02)	\$0.00				0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00			
Total		0		\$0.00	0		\$0.00	0			0	\$0.00	\$0.00					\$0.00			
Mercury Vapor																					
3	4,000		\$48.31	\$0.00		\$39.14	\$0.00		\$45.61	\$0.00	0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00			
4	8,000	1	\$53.72	\$53.72		\$48.75	\$0.00		\$53.50	\$0.00	1	\$53.72	\$104.94	\$104.93			\$104.94	\$104.93			
16	11,000		\$69.26	\$0.00		\$47.01	\$0.00				0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00			
5	22,000		\$89.17	\$0.00		\$56.45	\$0.00		\$90.90	\$0.00	0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00			
6	63,000	1	\$157.80	\$157.80		(\$24.19)	\$0.00		\$169.24	\$0.00	1	\$157.80	\$308.25	\$308.25			\$308.25	\$308.25			
1	4,000 Post Top		\$57.23	\$0.00		\$44.54	\$0.00		\$63.99	\$0.00	0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00			
2	8,000 Post Top		\$76.69	\$0.00		\$42.92	\$0.00		\$58.25	\$0.00	0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00			
23	22,000 Flood	5	\$107.10	\$535.50		\$105.69	\$0.00				5	\$535.50	\$1,046.06	\$209.21			\$1,046.06	\$209.21			
24	63,000 Flood	2	\$195.05	\$390.10		\$9.18	\$0.00				2	\$390.10	\$762.03	\$381.01			\$762.03	\$381.01			
Total		9		\$1,137.12	0		\$0.00	0		\$0.00	9	\$1,137.12	\$2,221.29					\$2,221.29			
Sodium Vapor																					
70	4,000	1,012	\$55.46	\$56,125.52		\$55.46	\$0.00		\$40.21	\$0.00	1,012	\$56,125.52	\$109,637.54	\$108.33			\$109,637.54	\$108.33			
71	5,800		\$67.15	\$0.00		\$67.15	\$0.00				0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00			
72	9,600	107	\$70.88	\$7,584.16		\$70.88	\$0.00		\$43.06	\$0.00	107	\$7,584.16	\$14,815.16	\$138.45			\$14,815.16	\$138.45			
41	13,000 Retired		\$73.55	\$0.00		\$73.55	\$0.00				0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00			
73	16,000		\$75.50	\$0.00		\$75.50	\$0.00				0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00			
74	27,500	322	\$93.89	\$30,232.58		\$93.89	\$0.00		\$60.84	\$0.00	322	\$30,232.58	\$59,057.37	\$183.40			\$59,057.37	\$183.40			
75	50,000	20	\$130.48	\$2,609.60		\$130.48	\$0.00		\$89.01	\$0.00	20	\$2,609.60	\$5,097.68	\$254.88			\$5,097.68	\$254.88			
76	140,000	1	\$174.99	\$174.99		\$174.99	\$0.00		\$167.43	\$0.00	1	\$174.99	\$341.83	\$341.83			\$341.83	\$341.83			
77	27,500 Flood	10	\$143.43	\$1,434.30		\$143.43	\$0.00				10	\$1,434.30	\$2,801.81	\$280.18			\$2,801.81	\$280.18			
78	50,000 Flood	31	\$163.57	\$5,070.67		\$163.57	\$0.00				31	\$5,070.67	\$9,905.22	\$319.52			\$9,905.22	\$319.52			
80	140,000 Flood		\$220.24	\$0.00		\$220.24	\$0.00				0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00			
83	4,000 Post Top	3	\$60.84	\$182.52		\$60.84	\$0.00		\$51.07	\$0.00	3	\$182.52	\$356.54	\$118.84			\$356.54	\$118.84			
79	9,600 Post Top	6	\$65.20	\$391.20		\$65.20	\$0.00		\$53.26	\$0.00	6	\$391.20	\$764.18	\$127.36			\$764.18	\$127.36			
81	27,500 12 Hour		\$113.48	\$0.00		\$113.48	\$0.00				0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00			
82	27,500 24 Hour		\$102.18	\$0.00		\$102.18	\$0.00				0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00			
Total		1,512		\$103,805.54	0		\$0.00	0		\$0.00	1,512	\$103,805.54	\$202,777.34					\$202,777.34			
Total Lights		1,521		\$104,942.66	0		\$0.00	0		\$0.00	1,521	\$104,942.66	\$204,998.63					\$204,998.63			
Poles																					
Wood	P	14	\$41.53	\$581.42		\$41.53	\$0.00				14	\$581.42	\$1,135.77	\$81.12			\$1,135.77	\$81.12			
Wood Shared	A		\$20.69	\$0.00		\$20.69	\$0.00				0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00			
Non-Metalic	R		\$48.95	\$0.00		\$48.95	\$0.00				0	\$0.00			\$0.00	\$0.00	\$0.00	\$0.00			
Fiberglass<25	C	3	\$102.25	\$306.75		\$102.25	\$0.00				3	\$306.75	\$634.33	\$211.44			\$634.33	\$211.44			
Fiberglass>25	D		\$171.03	\$0.00		\$171.03	\$0.00				0	\$0.00			\$0.00	\$0.00	\$0.00	\$0.00			
Non Metal	Y								\$50.88	\$0.00	0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00			
Metal	Z								\$112.35	\$0.00	0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00			
Metal Embedded	F	6	\$49.59	\$297.54		\$49.59	\$0.00				6	\$297.54	\$615.29	\$102.54			\$615.29	\$102.54			
Metal With Base	T	63	\$127.50	\$8,032.50		\$127.50	\$0.00				63	\$8,032.50	\$16,610.54	\$263.65			\$16,610.54	\$263.65			
Shared Metal With Base	H		\$63.67	\$0.00		\$63.67	\$0.00				0	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00			
Total Poles		86		\$9,218.21	0		\$0.00	0		\$0.00	86	\$9,218.21	\$1,135.77		\$17,860.16			\$18,995.93			
Total				\$114,160.87			\$0.00			\$0.00		\$114,160.87	\$206,134.40		\$17,860.16			\$223,994.56			
(a) Page 6, Column (a)																					
(b) Page 6, Column (b)																					

(a) Page 6, Column (a)
(b) Page 6, Column (b)

(1) Per Mass. Electric Streetlight System representing streetlights and dedicated poles in the municipality service all streetlight customers, under applicable rate schedule.

(2) Per Mass. Electric applicable tariff

(3) Column (1) x Column (2)

(4) Sum of all Column (1)

(5) Sum of all Column (3)

(6) Amount in (a) above is allocated to each size and type of unit installed throughout the municipality by Column (5) [taking the ratio of annual luminaire/pole revenue for each size and type of unit ÷ total annual revenue x the total unamortized value]

(7) Column (6) ÷ Column (4), truncated after 2 decimal places

(8) Sum of all Column (6)

(9) Sum of all Column (7)